**We have two resources :**

* Group is a POJO constituted by

**private** String name;

**private** String description;

**private** User admin;

**private** ArrayList<User> members;

**private** ArrayList<String> discussionBoard;

* User is a POJO constituted by

**private** String mail;

**private** String firstName;

**private** String lastName;

**private** String biography;

**private** ArrayList<Group> groupList;

**The methods for the resource Group are :**

@GET

public String viewAllGroups() : List all the groups

@GET

public String viewGroupMembers(@QueryParam("name") String name) : Return the members of a Group. The « name » variable is the name of the group.

@GET

public String viewUserGroups() : Return the groups the connected user belongs to.

@GET

public Response createGroup(@QueryParam("name") String name, @QueryParam("description") String description) : Create a group with a name and a description.

@GET

public Response leaveGroup(@QueryParam("name") String name) : Remove an user from a group.

@GET

public Response joinGroup(@QueryParam("name") String name) : Add an user to a group.

@GET

public Response changeGroupDescription(@QueryParam("name") String name, @QueryParam("description") String description) : Change a group’s description. It takes the name of the group and the new group’s description.

@GET

public Response deleteGroup(@QueryParam("name") String name) : Delete a group with its name.

@GET

public String groupDashboard(@QueryParam("name") String name) : Return a group’s dashboard with its name.

@GET

public Response commentBoard( @QueryParam("name") String name, @QueryParam("comment") String comment) : Add a comment on a group’s dashboard with its name and the comment.

**The methods for the resource User are :**

@GET

public Response signup(@QueryParam("mail") String mail) : Allow an user to sign up with his eMail.

@GET

public Response changeBiography(@QueryParam("biography") String biography) : Change an user’s biography with the new one.

@GET

public Response deleteUser() : Delete the connected user.

@GET

public Response changeName( @QueryParam("first\_name") String first\_name, @QueryParam("last\_name") String last\_name) : Change the user’s first and last name.

@GET

public String lookmember(@QueryParam("mail") String mail) : Allow the user to look for another member with his eMail.

@GET

public String registerUser(@QueryParam("mail") String mail, @QueryParam("first\_name") String first\_name, @QueryParam("last\_name") String last\_name,@QueryParam("biography") String biography) : Add a user to the database with his first and last name, eMail and biography.

**The methods to return a JSON are :**

@GET

public String getUserJson(@PathParam("mail") String mail) : Return an user with his mail.

@GET

public String getGroupBoard(@PathParam("name") String name) : Return a group dashboard with its name.

@GET

public String getgroupJSON(@PathParam("name") String name) : Return a group with its name.

@GET

public String getgroupMembersJSON(@PathParam("name") String name) : Return the members of a group with its name.

@GET

public String getgroupsJSON() : Return all the groups.